

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
27 September 2001 (27.09.2001)

PCT

(10) International Publication Number  
**WO 01/70052 A1**

(51) International Patent Classification<sup>7</sup>: A24D 3/06

DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS,  
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,  
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,  
TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(21) International Application Number: PCT/KR01/00288

(22) International Filing Date: 26 February 2001 (26.02.2001)

(25) Filing Language:

Korean

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language:

English

(30) Priority Data:

2000/14393 21 March 2000 (21.03.2000) KR

(71) Applicant and

(72) Inventor: AN, Jung-O [KR/KR]; 105, Sinseo B/D, #283  
6-Ga, Dangsan-dong, Yongdungpo-gu, Seoul 150-046  
(KR).

Published:

— with international search report

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



**WO 01/70052 A1**

(54) Title: CIGARETTES CONTAINING GOLD OR SILVER PARTICLES AND MANUFACTURING METHODS OF THE CIGARETTE FILTER

(57) Abstract: The present invention relates to cigarettes containing gold or silver particles and manufacturing methods of cigarette filters. The tobacco leaves, added with ion particles of gold, are prepared through blending them with peach leaves or bellflower leaves, which contains tartaric acid and maleic acid as major components; the cigarette pouches comprise 20 % of each leaves or bellflower leaves and the gold or silver particles prepared in 0.005–0.015 µm of their size; and the filters are prepared by soaking them in a liquid mixture of pulverized peach leaves, bellflower leaves, and ashes in more than 800 mesh. Therefore, in smoking, the cigarettes and their filters in this invention produce beneficial effects such as detoxication, blood-refining, and cell-cleaning with their major components such as gold particles, tartaric acid, and maleic acid being absorbed into one's lung.

CIGARETTES CONTAINING GOLD OR SILVER PARTICLES  
AND MANUFACTURING METHODS OF THE CIGARETTE FILTER

Technical Field

The present invention relates to a method for making cigarettes containing gold or silver particles, and more particularly, to a method for manufacturing cigarettes, wherein the tobacco leaves, added with ion particles of gold, are prepared through blending them with peach leaves or bellflower leaves, which contains tartaric acid and maleic acid as major components; the cigarette pouches comprise 20% of each leaves or bellflower leaves and the gold or silver particles prepared in  $0.005 \sim 0.015\mu\text{m}$  of their size; and the filters are prepared by soaking them in a liquid mixture of pulverized peach leaves, bellflower leaves, and ashes in more than 800 mesh.

Background Art

Generally, according to an investigation result, the relation of a smoking cigarette per day with a lung cancer is as follows: in case of 35-84 year-old men, the number of lung-cancer patients who have habitually smoked more than 20 cigarettes per day is 6 times more than that of those who are not smoking, and in case of more than 40 cigarettes per day, 12.6 times more. Also, one who is smoking since 15 year olds or before has a lung cancer 5 times more than one who is smoking since 20 year olds or before.

That is, when one is young, when his/her lung is not completely matured, he/she is apt to have a lung cancer. Also, if smoking, the artery which circulates blood to a muscle of heart becomes narrow and the nutritious oxygen fails to be supplied to the muscle of heart, and thus a myocardial (cardiac) infarction or heart attack is likely to occur in the condition.

Also, in the relation of mortality due to disease with smoking rate, according to the assertion of some U.S. doctors, suppose one who is not smoking is 1, one who is smoking in less than 10 cigarettes is 2.35 times, one who is smoking in 10-19 cigarettes is 3.0 times, one who is smoking in 20-29 cigarettes is 3.11 times and one who is smoking in more than 40 cigarettes is 3.5 times.

For example, heavy smokers are apt to have bronchial trouble or bronchitis. A bronchial tube is a passage through which air is transferred to a lung and the cigarette smoke passes through the passage, and thus the cigarette smoke has the greatest influence on the bronchial tube. As chronic bronchitis becomes, the resilience of the lung is going down little by little. That is, tar in the smoke, which contains stimulating materials or noxious gases, influences on the mucous membrane of bronchial tube, and this disease is called emphysema of the lungs.

Due to influence of nicotine, the secretion of gastric juices loses balance, the occurrence of gastric (stomach) ulcer or the duodenum becomes two times than the ordinary person.

In the state of maternity, carbon monoxide or hemoglobin in the blood is conveyed into the unborn baby through the placenta. In case of non-smoking female, the rate of sterility is 4.6%. The rate of sterility for heavy-smoking female

is 5.4% and is higher than that of non-smoking female. Also, for non-smoking female, the rate of abortion is 15.3%, while the rate of abortion for heavy-smoking female is 37.3% and is 2 times higher than that of non-smoking female. Also, the weight of new-born infant for heavy-smoking female is lighter than that of non-smoking female.

Also, the cigarette is widely known to injure human health. According to a report of the WHO, the number of deaths due to smoking will be increased to three times within 20 years, from three millions to ten millions. About half of the whole smoker will be eventually died due to smoking, half of deaths due to smoking will be died at middle age, causing the smoking to shorten the average span of human life to about 25 years. Thus, smoker is higher than non-smoker in the risk of death before 70 years old.

Also, the disease occurred due to smoking becomes causes of geriatric disease such as cancers, hypertension, apoplexy, cerebral infarction, respiratory disease.

As above mentioned, since smoking delivers fatal blow to the health of human, antismoking campaign is conducted throughout the world.

But, smoking is known to harm the health, some smoker think smoking is helpful to refill vital power, in contemplating, studying, depressed or lonely.

Due to such causes, many attempts are done to remove or reduce damages due to smoking.

For example, the leaf tobacco is chemical-treated to reduce noxious substances such nicotine, tar. Various types of tobacco pipes installed with cha-

col, smoke and tar absorbers and various filters are advent. Also, various quality of filters attached to the cigarette are proposed, but remarkable effects are not obtained.

Besides, in Korea, patent application or granted patent relating to ginseng 5 cigarettes, bellflower cigarettes, danggwi cigarettes has been filed. But, inherent incense or the extract from ginseng, bellflower, danggwi is only added to the cigarettes, it is not disclosed how the substances are interacted with the effective substances of the cigarette in smoking.

#### Disclosure of the Invention

10

Therefore, in considering said problems of candles in the art, the object of the present invention is devised to provide a method for manufacturing cigarettes containing gold or silver particles, which is capable of alleviating bad properties, activating human cells and providing detoxification.

15

Another object of the present invention is provide a method for manufacturing cigarettes containing gold or silver particles, which is capable of producing beneficial effects such as detoxification, blood-refining, and cell-cleaning with their components such as gold particles, tartaric acid, and maleic acid being absorbed into one's lung, in smoking.

20

The present invention was achieved by providing a method of manufacturing a filter of a leaf tobacco, comprising the steps of:

pulverizing peach and bellflower leaves which are pounded and dried by steam, with ashes in more than 800 mesh, to a fine powder; and

soaking the pulverized power into veins of the leaf tobacco to manufacture a fibrous filter;

or

pulverizing ashes, peach and bellflower leaves together with water;

5       soaking a liquid mixture of the pulverized ingredients into veins of the leaf tobacco; and

drying the soaked ingredients.

Preferably, at least 3 ppm of gold ionic water or at least 3 ppm of silver ionic water is sprayed, such that the filter contains gold or silver ionic water.

10      In the preferred embodiment, a method for manufacturing cigarettes containing gold or silver particles comprises the steps:

pulverizing peach and bellflower leaves together with water;

soaking the pulverized ingredients into veins of the leaf tobacco containing at least 3 ppm of gold ionic water; and

15      drying the soaked ingredients;

or

spraying at least 3 ppm of gold ionic water into veins of the leaf tobacco;

and

pulverizing peach and bellflower leaves which are pounded and dried by

20      steam and blending the pulverized ingredients with the leaf tobacco.

Preferably, the leaf tobacco is soaked into ozone water for 30 minutes to remove agricultural chemicals.

In another preferred embodiment, a method for manufacturing cigarettes containing gold or silver particles comprises the steps of:

- isolating fibroid materials from pulp, bagaseo, flax plant, hemp plant or jute to make a tobacco pouch;
- 5 blending at least 3 ppm of gold or silver ionic water having 99.9% of gold or silver purity and  $0.005\sim 0.015\mu\text{m}$  of particle size, with peach and bellflower leaves which are pounded and dried by steam, and water; and
- spraying the blended ingredients into the surface of tobacco pouch.

Best Mode for Carrying Out the Invention

10

Below, the example provides a more detailed description of a preferred embodiment of the present invention.

A method of manufacturing a filter of a leaf tobacco according to the present invention, comprises pulverizing peach and bellflower leaves which are pounded and dried by steam, with ashes in more than 800 mesh, to a fine powder, and soaking the pulverized power into veins of the leaf tobacco to manufacture a fibrous filter, or pulverizing ashes, peach and bellflower leaves together with water, soaking a liquid mixture of the pulverized ingredients into veins of the leaf tobacco, and drying the soaked ingredients.

15

The manufactured filter adsorbs nicotine or tar substances of the cigarette and neutralizes them, and tartaric and maleic acids of peach and bellflower leaves are helpful to detoxification of noxious materials.

Preferably, at least 3 ppm of gold ionic water or at least 3 ppm of silver ionic water is sprayed, such that the filter contains gold or silver ionic water.

A method for manufacturing cigarettes containing gold or silver particles according to the present invention comprises pulverizing peach and bellflower leaves together with water, soaking the pulverized ingredients into veins of the leaf tobacco containing at least 3 ppm of gold ionic water, and drying the soaked ingredients, or spraying at least 3 ppm of gold ionic water into veins of the leaf tobacco, and pulverizing peach and bellflower leaves which are pounded and dried by steam and blending the pulverized ingredients with the leaf tobacco.

10 Preferably, the leaf tobacco is soaked into ozone water for 30 minutes to remove agricultural chemicals.

A method for manufacturing cigarettes containing gold or silver particles according to the present invention comprises isolating fibroid materials from pulp, bagaseo, flax plant, hemp plant or jute to make a tobacco pouch, blending at least 15 3 ppm of gold or silver ionic water having 99.9% of gold or silver purity and 0.005~0.015 $\mu\text{m}$  of particle size, with peach and bellflower leaves which are pounded and dried by steam, and water, and spraying the blended ingredients into the surface of tobacco pouch.

20 In the meantime, the cigarettes manufactured as above, when smoking them, produce beneficial effects such as detoxication, blood-refining, and cell-cleaning with their major components such as gold particles, tartaric acid, and maleic acid being absorbed into one's lung.

The above examples are offered to illustrate this invention and are not meant to be construed in any way as limiting the scope of this invention. An expert in the art can sufficiently understand desirable examples of the present invention. Also, the range of the present invention must be decided by the  
5 following claims based on technical concept of the present invention.

#### Industrial Applicability

As explained through the above example, the cigarette has high habituation as favorite foods. Therefore, the cigarettes and their filters in this invention, when smoking them, produce beneficial effects such as detoxication,  
10 blood-refining, and cell-cleaning with their major components such as gold particles, tartaric acid, and maleic acid being absorbed into one's lung. Thus the present invention is useful for the cigarette industry.

Although the preferred embodiments of the invention have been disclosed for illustrative purposes, those skilled in the art will appreciate that  
15 various modifications, additions and substitutions are possible, without departing from the scope and spirit of the invention as disclosed in the accompanying claims.

Claims

1. A method of manufacturing a filter of a leaf tobacco, comprising the steps of:  
pulverizing peach and bellflower leaves which are pounded and dried by steam,  
5 with ashes in more than 800 mesh, to a fine powder; and  
soaking the pulverized power into veins of the leaf tobacco to manufacture a  
fibrous filter;  
or  
pulverizing ashes, peach and bellflower leaves together with water;  
10 soaking a liquid mixture of the pulverized ingredients into veins of the leaf  
tobacco; and  
drying the soaked ingredients.
2. The method of manufacturing a filter of a leaf tobacco as claimed in claim 1,  
15 wherein at least 3 ppm of gold ionic water or at least 3 ppm of silver ionic water is  
sprayed, such that the filter contains gold or silver ionic water.
3. A method for manufacturing cigarettes containing gold or silver particles,  
comprising the steps:  
20 pulverizing peach and bellflower leaves together with water;  
soaking the pulverized ingredients into veins of the leaf tobacco containing at  
least 3 ppm of gold ionic water; and  
drying the soaked ingredients;  
or  
25 spraying at least 3 ppm of gold ionic water into veins of the leaf tobacco; and  
pulverizing peach and bellflower leaves which are pounded and dried by steam  
and blending the pulverized ingredients with the leaf tobacco.
4. The method for manufacturing cigarettes containing gold or silver particles as

claimed in claim 3, wherein the leaf tobacco is soaked into ozone water for 30 minutes to remove agricultural chemicals.

5. A method for manufacturing cigarettes containing gold or silver particles,  
5 comprising the steps of  
isolating fibroid materials from pulp, bagaseo, flax plant, hemp plant or jute to  
make a tobacco pouch;  
blending at least 3 ppm of gold or silver ionic water having 99.9% of gold or  
silver purity and  $0.005\sim0.015\mu\text{m}$  of particle size, with peach and bellflower  
10 leaves which are pounded and dried by steam, and water; and  
spraying the blended ingredients into the surface of tobacco pouch.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR01/00288

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 A24D 3/06**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 56085275 A (TKR DRITTE TABAK FORSCHUNGS-GMBH) 11 July 1981 see the whole document	I-3, 5
A	KR 1986002239 A (Deo K.M.) 24 April 1986 claim 1,2	I-3, 5
A	KR 1996009916 A (Park J.S) 20 April 1996 claim 1,2	I-3, 5

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents.such combination being obvious to a person skilled in the art "&" document member of the same patent family
--	---

Date of the actual completion of the international search

20 JUNE 2001 (20.06.2001)

Date of mailing of the international search report

21 JUNE 2001 (21.06.2001)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
Government Complex-Daejeon, Dunsan-dong, Seo-gu, Daejeon  
Metropolitan City 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

CHOI, Cha Hee

Telephone No. 82-42-481-5961



# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR01/00288

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 56-085275 A	11.07.1981	FR 81-2467555 GB 81-2064294 DE 81-2942544 AR 81-222255 IT 80-8025465	30.04.1981 17.06.1981 30.04.1981 30.04.1981 20.10.1980
KR 1986-002236	24.04.1986	None	
KR 1996-009916	20.04.1996	None	

**Subject:** RE: FW: Starbear Pencil Art  
**From:** "Linda Powell" <lpowell@stars.ca>  
**Date:** Thu, 4 Jul 2002 10:54:27 -0600  
**To:** <rmgoodon@mckay-carey.com>

Thanks, Roxanne.

I had thought that this was the case but wanted to confirm. There will be other occasions when this type of question could come up.

Regards,

Linda

Linda Powell  
Executive Administrator  
STARS  
Tel: 403-516-3571  
Cell: 403-650-6160  
Fax: 403-295-2426  
Email:lpowell@stars.ca

-----Original Message-----

From: Roxanne M. Goodon [mailto:[rmgoodon@mckay-carey.com](mailto:rmgoodon@mckay-carey.com)]  
Sent: July 4, 2002 10:22 AM

To: Linda Powell  
Subject: Re: FW: Starbear Pencil Art

I don't believe there are any issues with the proposed font for STARBEAR for use on the pencils. STARBEAR is registered as a word trade mark (plain block letters). STARBEAR, as proposed for use on the pencils, still has a dominant presence despite the different font.

Regards,  
Roxanne Goodon

Linda Powell wrote:

> Roxanne ? would there be any issue with this type of format for STARBEAR?  
>  
>  
>  
> The original trademark submission was ARIAL font ? but this  
> representation is very amenable to the young audience.  
>  
>  
>  
> Many thanks.  
>  
>  
>  
> Linda  
>  
>  
>  
> -----Original Message-----  
> From: Pam Ison Reilander  
> Sent: July 4, 2002 9:47 AM  
> To: Linda Powell  
> Subject: FW: Starbear Pencil Art

>  
>  
>  
> Please review the font for STARBEAR. We are also adding the website  
> address.  
>  
>  
>  
> Thanks  
>  
> Pam  
>  
>  
>  
> -----Original Message-----  
> From: JBS Pins & Things [mailto:[jbspinsnthings@shaw.ca](mailto:jbspinsnthings@shaw.ca)]  
> Sent: Wednesday, July 03, 2002 3:37 PM  
> To: Pam Ison Reilander  
> Subject: Starbear Pencil Art  
>  
>  
>  
> Hi Pam! Attached is artwork for Starbear pencils. Let me know if this  
> is what you're looking for on placement of him all over the pencil.  
>  
>  
>  
> Jackie  
>